

IN THE CLAIMS

Please amend the claims as follows:

Claims 1-13 (Canceled).

Claim 14 (New): A method, comprising:

mixing an aqueous polymer dispersion and an abrasive grit to form a grit mixture,

then

drying the grit mixture to form an abrasive material,

wherein the aqueous polymer dispersion comprises dispersed particles of at least one polymer A1 having a glass transition temperature  $T_g$  of from  $-20^{\circ}\text{C}$  to  $+35^{\circ}\text{C}$  and obtained by free-radical emulsion polymerization in the presence of a polymer A2, wherein the polymer A2 comprises polymerized units of

- from 50 to 99.5% by weight of at least one of an ethylenically unsaturated monocarboxylic acid and an ethylenically unsaturated dicarboxylic acid whose carboxylic groups can form an anhydride group, or mixtures thereof,
- from 0.5 to 50% by weight of at least one ethylenically unsaturated compound selected from the group consisting of an ester of an ethylenically unsaturated monocarboxylic acid, a monoester of an ethylenically unsaturated dicarboxylic acid and a diester of an ethylenically unsaturated dicarboxylic acid with an amine containing at least one hydroxyl group, and
- up to 20% by weight of at least one further monomer

Claim 15 (New): The method as claimed in claim 14, wherein the polymer A2 comprises polymerized units of at least one monomer selected from the group consisting of a  $\text{C}_3\text{-C}_{10}$  monocarboxylic acid and a  $\text{C}_4\text{-C}_8$  dicarboxylic acid.

Claim 16 (New): The method as claimed in claim 14 wherein the amine containing at least one hydroxyl group is at least one amine of formula (I)



where

$R^c$  is at least one of a  $C_6$  to  $C_{22}$  alkyl, a  $C_6$  to  $C_{22}$  alkenyl, an aryl- $C_6$ - $C_{22}$  alkyl or an aryl- $C_6$ - $C_{22}$  alkenyl, wherein the alkenyl radical has 1 to 3 nonadjacent double bonds,

$R^a$  is at least one of an hydroxy- $C_1$ - $C_6$  alkyl or a radical of formula II



wherein the sequence of the alkylene oxide units is arbitrary and x and y independently of each other are an integer from 0 to 100, and the sum of x and y is  $> 1$ ,

$R^b$  is at least one of hydrogen, a  $C_1$  to  $C_{22}$  alkyl, a hydroxy- $C_1$ - $C_6$  alkyl, a  $C_6$  to  $C_{22}$  alkenyl, an aryl- $C_6$ - $C_{22}$  alkyl, an aryl- $C_6$ - $C_{22}$  alkenyl or a  $C_5$  to  $C_8$  cycloalkyl, wherein the alkenyl radical has 1 to 3 nonadjacent double bonds, or  $R^b$  is a radical of formula III



wherein the sequence of the alkylene oxide units is arbitrary and v and w independently of each other are an integer from 0 to 100.

Claim 17 (New): The method as claimed in claim 14 wherein the weight ratio based on solids of polymer A1 to polymer A2 is in the range from 7:1 to 1:7.

Claim 18 (New): The method as claimed in claim 14, wherein the weight ratio based on solids of polymer A1 to polymer A2 is in the range of from 3:1 to 1:3.

Claim 19 (New): The method as claimed in claim 14, wherein the polymer A2 further comprises an alkanolamine crosslinker having at least two hydroxyl groups.

Claim 20 (New): The method as claimed in claim 14, wherein the polymer A1 has a glass transition temperature of from -20 to +30°C.

Claim 21 (New): The method as claimed in claim 14, wherein the polymer A1 is at least one copolymer comprising a hard comonomer block having a glass transition temperature of from 65 to 165°C and a soft comonomer block having a glass transition temperature of from -65 to -10°C.

Claim 22 (New): The method as claimed in claim 14, further comprising:  
adjusting the pH of the grit mixture to from 2 to 8 by adding one or more of an organic base and an inorganic base.

Claim 23 (New): The method as claimed in claim 14, further comprising:  
mixing the grit mixture with one or more of an organic polymeric mixing component or an inorganic polymeric mixing component in at least one of a dissolved form or a dispersed form.

Claim 24 (New): An abrasive paper comprising an abrasive material obtained by the method of claim 14 and a paper substrate,  
wherein the abrasive material is present on at least one surface of the paper.

Claim 25 (New): An abrasive cloth comprising the abrasive mixture obtained by the process of claim 14 and a cloth,

wherein the abrasive material is present on the surface of the cloth or the cloth is present in a matrix of the abrasive material.

Claim 26 (New): A scouring pad comprising an abrasive material obtained by the method of claim 14, wherein the abrasive grit is present in a dispersed form in a dried matrix of the aqueous polymer dispersion.

Claim 27 (New): An abrasive material, comprising:  
a dried mixture comprising an abrasive grit and an aqueous polymer dispersion comprising dispersed particles of at least one polymer A1 having a glass transition temperature  $T_g$  of from  $-20^{\circ}\text{C}$  to  $+35^{\circ}\text{C}$  and obtained by free-radical emulsion polymerization in the presence of a polymer A2 comprising polymerized units of

- from 50 to 99.5% by weight of at least one of an ethylenically unsaturated monocarboxylic acid and an ethylenically unsaturated dicarboxylic acid whose carboxylic groups can form an anhydride group, or mixtures thereof,
- from 0.5 to 50% by weight of at least one ethylenically unsaturated compound selected from the group consisting of an ester of an ethylenically unsaturated monocarboxylic acid, a monoester of an ethylenically unsaturated dicarboxylic acid and a diester of an ethylenically unsaturated dicarboxylic acid with an amine containing at least one hydroxyl group, and
- up to 20% by weight of at least one further monomer.

Claim 28 (New): The abrasive material as claimed in claim 22, wherein the polymer A2 comprises polymerized units of at least one of a C<sub>3</sub>-C<sub>10</sub> monocarboxylic acid and a C<sub>4</sub>-C<sub>8</sub> dicarboxylic acid.

Claim 29 (New): The abrasive material as claimed in claim 27, wherein the amine containing at least one hydroxyl group is at least one amine of formula (I)



where

R<sup>c</sup> is at least one of a C<sub>6</sub> to C<sub>22</sub> alkyl, a C<sub>6</sub> to C<sub>22</sub> alkenyl, an aryl-C<sub>6</sub>-C<sub>22</sub> alkyl or an aryl-C<sub>6</sub>-C<sub>22</sub> alkenyl, wherein the alkenyl radical has 1 to 3 nonadjacent double bonds,

R<sup>a</sup> is at least one of a hydroxy-C<sub>1</sub>-C<sub>6</sub> alkyl or a radical of formula II



where the sequence of the alkylene oxide units is arbitrary and x and y independently of each other are an integer from 0 to 100, and the sum of x and y is > 1,

R<sup>b</sup> is at least one of hydrogen, a C<sub>1</sub> to C<sub>22</sub> alkyl, a hydroxy-C<sub>1</sub>-C<sub>6</sub> alkyl, a C<sub>6</sub> to C<sub>22</sub> alkenyl, an aryl-C<sub>6</sub>-C<sub>22</sub> alkyl, an aryl-C<sub>6</sub>-C<sub>22</sub> alkenyl or a C<sub>5</sub> to C<sub>8</sub> cycloalkyl, wherein the alkenyl radical has 1 to 3 nonadjacent double bonds, or R<sup>b</sup> is a radical of formula III



where the sequence of the alkylene oxide units is arbitrary and v and w independently of each other are an integer from 0 to 100,  
and mixtures thereof.

Claim 30 (New): The abrasive material as claimed in claim 22, wherein the weight ratio based on solids of polymer A1 to polymer A2 is in the range from 7:1 to 1:7.

Claim 31 (New): The abrasive material as claimed in claim 27, wherein the weight ratio based on solids of polymer A1 to polymer A2 is in the range from 3:1 to 1:3.

Claim 32 (New): The abrasive material as claimed in claim 27, wherein the polymer A2 further comprises an alkanolamine crosslinker having at least two hydroxyl groups.

Claim 33 (New): The abrasive material as claimed in claim 27, wherein the polymer A1 has a glass transition temperature of from -20°C to +30°C.

Claim 34 (New): The abrasive material as claimed in claim 27, wherein the polymer A1 is at least one copolymer having a hard comonomer having a glass transition temperature of from 65 to 165°C, and a soft comonomer having a glass transition temperature of from -65 to -10°C.

Claim 35 (New): The abrasive material as claimed in claim 27, further comprising: one or more organic or inorganic, polymeric mixing components in dissolved or dispersed form.

Claim 36 (New): An abrasive paper, comprising:  
the abrasive material of claim 27, and a paper substrate, wherein the abrasive material is present on at least one surface of the substrate paper.

Claim 37 (New): An abrasive cloth, comprising:  
the abrasive material of claim 27 and a cloth,  
wherein the dried aqueous polymer dispersion is present on a surface of the cloth or  
the cloth is embedded in a matrix of the dried aqueous polymer dispersion.

Claim 38 (New): A scouring pad, comprising:  
the abrasive material of claim 27, wherein the abrasive grit is present dispersed in the  
matrix of the dried abrasive material.

BASIS FOR THE AMENDMENT

Claims 14-38 are active in the present application. Claims 1-13 have been canceled. Claims 14-38 are new claims. Support for the new claims is found in the original claims and throughout the specification. No new matter is believed to have been added by this amendment.